

VICINITY MAP
SCALE: NTS

LEGEND

- EXISTING RIGHT OF WAY
- EXISTING AC PAVEMENT
- S OR SD --- EXISTING SEWER OR STORM DRAIN
- 2" G --- EXISTING GAS LINE
- 2" W --- EXISTING WATER LINE
- T --- EXISTING TELEPHONE LINE
- SCE --- EXISTING EDISON LINE
- CATV --- EXISTING CABLE TELEVISION LINE
- FO --- EXISTING FIBER OPTICS
- POWER POLE
- CENTERLINE OF STREET
- NEW WATER LINE
- ▽ THRUST BLOCK
- AIR VALVE
- BLOW OFF
- ⊗ BUTTERFLY VALVE
- 7 SHEET NUMBER

BASIS OF BEARING

THE BASIS OF BEARINGS IS THE CENTERLINE OF BASE LINE AVENUE AS SHOWN ON TRACT MAP No. 9934 ON FILE IN BOOK 229 AT PAGES 71 & 72, OFFICIAL RECORDS OF SAN BERNARDINO COUNTY. SAID LINE BEARS NORTH 89°55'02" EAST.

16" WATERLINE IN ETIWANDA AVENUE - SHEET 7
THE BASIS OF BEARINGS IS THE CENTERLINE OF ETIWANDA AVENUE AS SHOWN ON PARCEL MAP No. 11645 ON FILE IN BOOK 129 AT PAGE 36, OFFICIAL RECORDS OF SAN BERNARDINO COUNTY. SAID LINE BEARS SOUTH 89°55'45" EAST.

BENCH MARK

THE BENCH MARK IS CITY OF RIALTO BENCH MARK No. 031-88. FOUND SAN BERNARDINO CO. SURVEY BRASS DISC SET IN EAST END OF PCC HEADWALL STAMPED: "BENCHMARK No. 9-3 1970" 43 FT SOUTH OF CENTERLINE OF ETIWANDA AVENUE AND 88 FT WEST OF THE CENTERLINE OF CACTUS AVENUE. ELEVATION: 1311.195 (NGVD29)

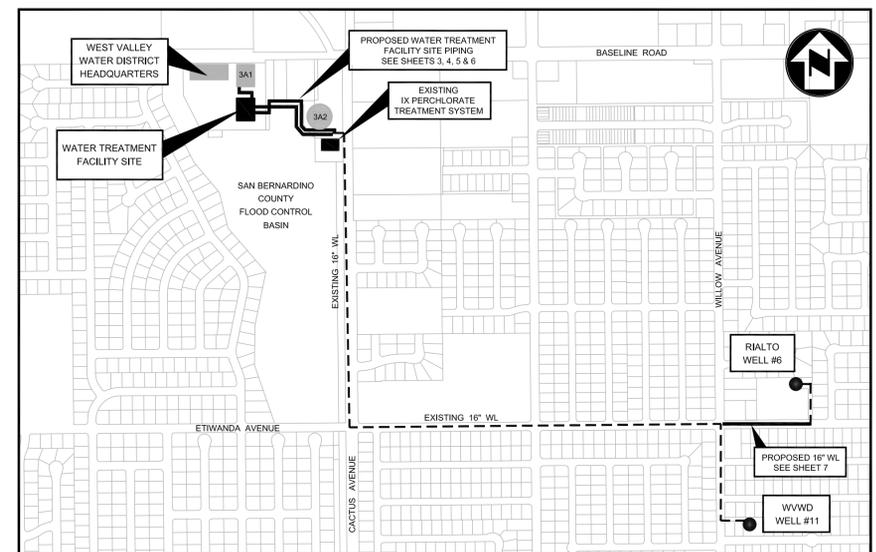
GENERAL CONSTRUCTION NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND WEST VALLEY WATER DISTRICT'S STANDARDS FOR DOMESTIC WATER FACILITIES AS OF THE DATE OF PLAN APPROVAL.
- THE CONTRACTOR SHALL ARRANGE FOR A PRE-CONSTRUCTION CONFERENCE WITH THE WEST VALLEY WATER DISTRICT AND THE ENGINEER AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR'S ATTENTION IS EXPRESSLY DIRECTED TO ALL THE REQUIREMENTS AND PROVISIONS OF THE STATE OF CALIFORNIA SAFETY REGULATIONS. CONFORMANCE THERETO SHALL BE STRICTLY ENFORCED DURING THE ENTIRE LIFE OF THE CONTRACT. A CAL-OSHA EXCAVATION PERMIT SHALL BE REQUIRED FOR TRENCHES IN EXCESS OF 5.0 FEET IN DEPTH.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER, AND HIS REPRESENTATIVE HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS, WHETHER OR NOT SUCH FACILITIES ARE SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL UNCOVER AND VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITY LINES PRIOR TO EXCAVATING. THE CONTRACTOR SHALL MAKE APPROPRIATE ARRANGEMENTS FOR THE PROTECTION OF ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 1-800-227-2600 PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION OUTSIDE OF THE PROJECT AREA.
- PIPE TRENCH SHALL BE EXCAVATED TRUE TO LINE AND GRADE IN ACCORDANCE WITH THE PLAN AND SPECIFICATIONS. ALL BACK FILL SHALL BE PLACED IN A MANNER SATISFACTORY TO THE ENGINEER AND IN ACCORDANCE WITH THE STANDARDS, SPECIFICATIONS AND PERMITS. MATERIAL FOR BACKFILL TO TWELVE (12) INCHES ABOVE THE PIPE SHALL BE GRANULAR MATERIAL WITH A MINIMUM SAND EQUIVALENT OF 30.
- NO PIPELINE SHALL BE INSTALLED ON FILL MATERIAL WITHOUT FIRST MEETING IN-PLACE DENSITY TESTS. COMPACTION IN INTERMEDIATE ZONE SHALL BE COMPACTED TO 90% RELATIVE COMPACTION.
- COMPACTION TESTS SHALL BE REQUIRED FOR ALL TRENCH BACKFILL PER WEST VALLEY WATER DISTRICT STANDARDS AND SPECIFICATIONS AND/OR THE REQUIREMENTS OF ANY AGENCY HAVING JURISDICTION.
- THE CONTRACTOR SHALL REPLACE IN KIND, TO THE SATISFACTION OF THE ENGINEER AND ANY AGENCY HAVING JURISDICTION THEREOF, ANY ROAD BASE, PAVING, CURB AND GUTTER OR OTHER IMPROVEMENTS CUT, REMOVED OR DAMAGED IN CONJUNCTION WITH THIS PROJECT.
- PIPE DELIVERED TO THE SITE SHALL BE PROTECTED BY THE CONTRACTOR FROM DUST OR OTHER CONTAMINATION PRIOR TO PLACING IN TRENCH AND SHALL BE INSTALLED IN ACCORDANCE WITH DISTRICT STANDARDS TO THE SATISFACTION OF THE DISTRICT'S INSPECTOR.
- THE CONTRACTOR, AT THE END OF EACH DAYS WORK, SHALL ENSURE THAT ALL OPENINGS INTO THE PIPELINE ARE SECURELY PLUGGED AND STOPPED SO THAT NO ANIMAL, FOWL OR RODENT CAN ENTER THE PIPELINE.
- ALL WORK SHALL BE INSPECTED BY THE WEST VALLEY WATER DISTRICT OR ITS DULY AUTHORIZED AGENT. THE CONTRACTOR SHALL NOT PROCEED WITH ANY SUBSEQUENT PHASE OF WORK UNTIL THE PREVIOUS PHASE HAS BEEN INSPECTED AND APPROVED. INSPECTION SHALL BE MADE OF THE FOLLOWING PHASES OF WORK:
 - TRENCHING, INSTALLATION OF PIPE, VALVES, FITTINGS, VAULTS, BACKFILL AND COMPACTION.
 - LEAKAGE TESTING.
 - VAULTS AND VALVE BOXES RAISED TO GRADE, LINES FLUSHED AND FINAL INSPECTION.
- THE CONTRACTOR SHALL GIVE AT LEAST 2 WORKING DAYS NOTICE WHEN INSPECTIONS OR ENGINEERING JUDGMENTS BECOME NECESSARY AS SET FORTH IN THE STANDARD SPECIFICATIONS.

WATERLINE CONSTRUCTION NOTES

- ALL STATIONING SHOWN ON THESE PLANS IS MEASURED ALONG THE CENTERLINE OF THE PIPE OR AS SHOWN ON PLANS. MINIMUM PIPE COVER SHALL BE 42-INCHES OR AS SHOWN ON PLANS.
- THE CONTRACTOR SHALL NOTIFY THE DISTRICT AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY TIE-INS TO EXISTING WATERLINES. SUCH TIE-INS AS MAY BE REQUIRED TO BE MADE SHALL MEET WITH THE APPROVAL OF THE DISTRICT.
- ALL WATER MAINS SHALL BE CEMENT LINED AND COATED STEEL PIPE (10 GAUGE MINIMUM) CLASS 200.
- CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL PIPE BENDS (WHERE PIPE CHANGES IN DIRECTION MORE THAN 10°) AND FITTINGS, IN ACCORDANCE WITH DISTRICT'S STANDARD DRAWING W-3.
- AN AIR RELEASE VALVE SHALL BE INSTALLED AT EVERY HIGH POINT IN THE SYSTEM. A BLOW-OFF ASSEMBLY SHALL BE INSTALLED AT EVERY LOW POINT IN THE SYSTEM.
- A VALVE BOX AND COVER SHALL BE INSTALLED AT EACH VALVE WHICH IS SET IN THE GROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING VALVE BOXES TO GRADE AFTER FINAL GRADING OR PAVING OPERATION.
- VALVES 12-INCHES AND LARGER SHALL BE BUTTERFLY VALVES. VALVES SHALL BE RATED FOR 150 PSI OPERATION PRESSURE OR AS SHOWN ON THESE PLANS AND SHALL HAVE FLANGED ENDS.
- ALL NEW WATER FACILITIES IMPROVEMENTS SHALL BE TESTED AND DISINFECTED PRIOR TO CONNECTING TO EXISTING WATER SYSTEM, PER AWWA C651. CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY BULKHEADS AS REQUIRED FOR PRESSURE TESTING.

INDEX OF DRAWINGS	
SHEET NUMBER	DESCRIPTION:
1	COVER SHEET
2	VICINITY MAP, INDEX OF DRAWINGS AND CONSTRUCTION NOTES
3	SITE PIPING LAYOUT
4	16" WATERLINE - INFLUENT PIPELINE STA 10+58.35 TO STA 18+37.40±
5	16" WATERLINE TO DISCHARGE BASIN AND EXISTING IX TREATMENT
6	16" WATERLINES - WELL 33 BLENDING PIPELINES
7	16" WATERLINE IN ETIWANDA AVENUE STA 10+00 TO STA 16+63.90±
8	SITE LAYOUT
9	DEMOLITION AND GRADING PLAN
10	SITE UTILITIES
11	SEWER LINE
12	STANDARD DETAILS



PROJECT LOCATIONS
SCALE: NTS

9. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES AND AGENCIES PRIOR TO STARTING ANY CONSTRUCTION WORK.

WEST VALLEY WATER DISTRICT
855 BASELINE AVENUE
RIALTO, CALIFORNIA 92376
ATTN: MR. LON TSAI
TELE: (909) 875-1804

CITY OF RIALTO
WATER DEPARTMENT
335 W. RIALTO AVENUE
RIALTO, CALIFORNIA 92376
ATTN: MR. DAVID ULLERY
TELE: (909) 421-7243

CITY OF RIALTO
PUBLIC WORKS DEPARTMENT
150 S. PALM AVENUE
RIALTO, CALIFORNIA 92376
ATTN: MR. CYRUS NEKOOCIE
TELE: (909) 820-2530

SOUTHERN CALIFORNIA EDISON
7951 REDWOOD AVENUE
FONTANA, CALIFORNIA 92336
ATTN: MR. JOHN HERNANDEZ
TELE: (909) 357-6185

SOUTHERN CALIFORNIA GAS COMPANY
REDLANDS, CALIFORNIA 92374
ATTN: MR. CARLOS FLORES
TELE: (909) 335-7851

SOUTHERN CALIFORNIA EDISON
7951 REDWOOD AVENUE
FONTANA, CALIFORNIA 92336
ATTN: SCE PLANNING SUPERVISOR
TELE: (909) 357-6585

PACIFIC BELL
1265 VAN BUREN STREET
ANAHEIM, CALIFORNIA 92807
ATTN: MS. KARIN SIZELove
TELE: (714) 666-5778

NOTE: CALL AT LEAST 48 HOURS PRIOR TO STARTING WORK.



CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

Revision	No.	By	Date	Approval

APPROVED	27395	Date		
	RCE			
Designed	LSJ	Checked	RW	Scale:
Drawn	LSJ	Job No.	62026.184	AS SHOWN

ENGINEERING RESOURCES
OF SOUTHERN CALIFORNIA, INC.
1820 Commercenter Circle
San Bernardino, California 92408-3430
(909) 890-1255 Fax (909) 890-0995

WEST VALLEY WATER DISTRICT / CITY OF RIALTO
WELL HEAD TREATMENT SYSTEM PROJECT
VICINITY MAP, INDEX OF DRAWINGS
AND CONSTRUCTION NOTES

SHEET 2 OF 12
SHEETS 4-1344